Food
Access
Analysis

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A Geographic Information System-Based Approach to Evaluate
Access to Healthful Food Resources in San Jose, California

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Data Source and Data Type:
1.Socio-economic Characteristics (Census 2010, Polygons)
2.Bus Stops (Valley Transportation Authority, Points)
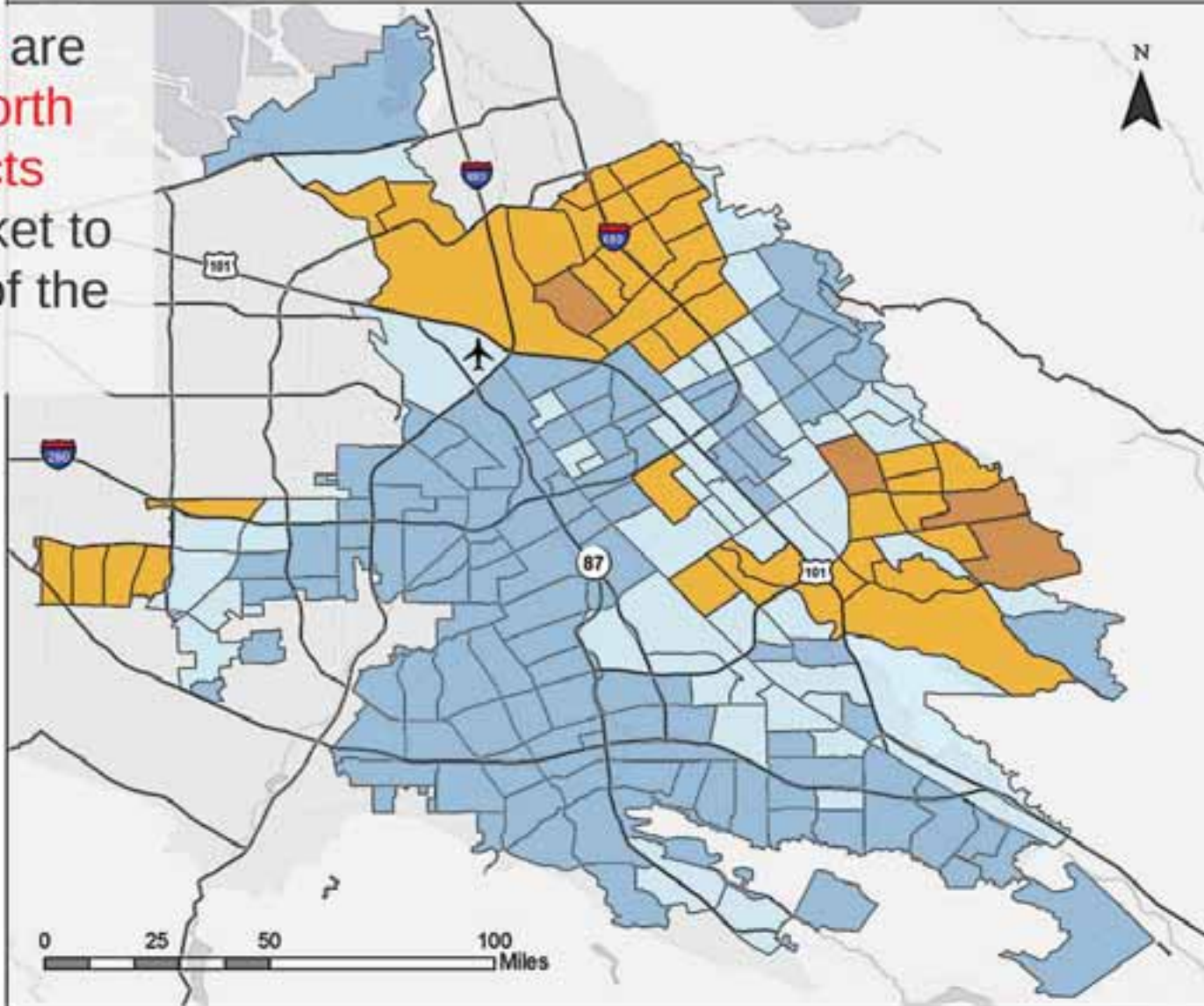3.Supermarkets and Farmers' Market Locations (Field Study, Points)

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is there a Correlation Between **Race**, **Ethnicity**, and **Income** and a Family's Access to Healthful Food?

Racial Composition, San Jose, CA

n populations are
inant in the north
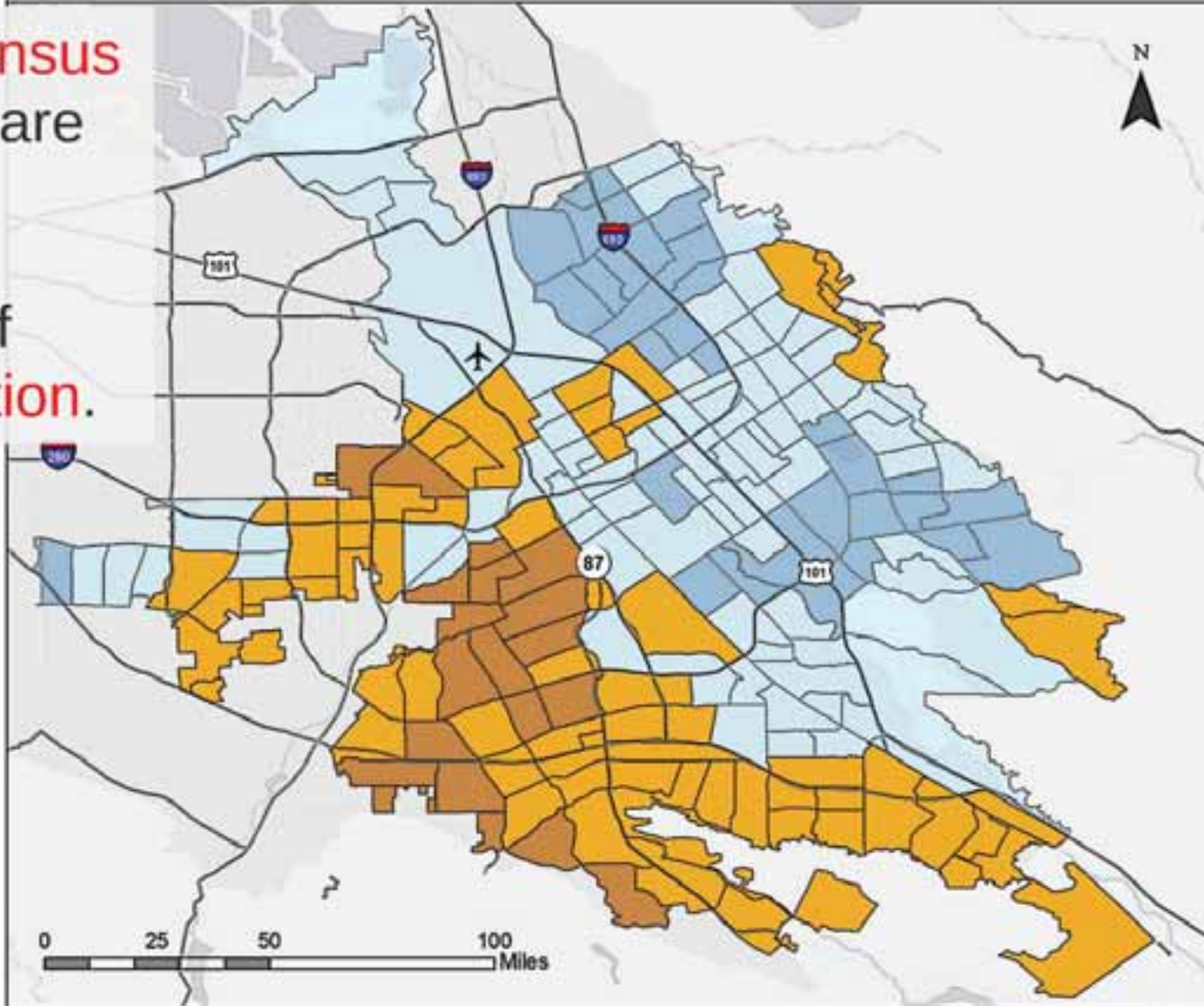northeast tracts
another pocket to
ar west side of the

Asian race population percentage

- 0 - 25%
- 26 - 50%
- 51 - 75%
- 76 - 100%

Racial Composition, San Jose, CA

...and west census ... of San Jose are ...sed ...minantly (50 ...t or more) of ...race population.

White race population percentage

- 0 - 25 %
- 26 - 50 %
- 51 - 75 %
- 76 - 100 %

Racial Composition, San Jose, CA

...ers of population
...ied as "Other"
... closer to
...own San Jose
... the eastern
...s tracts.
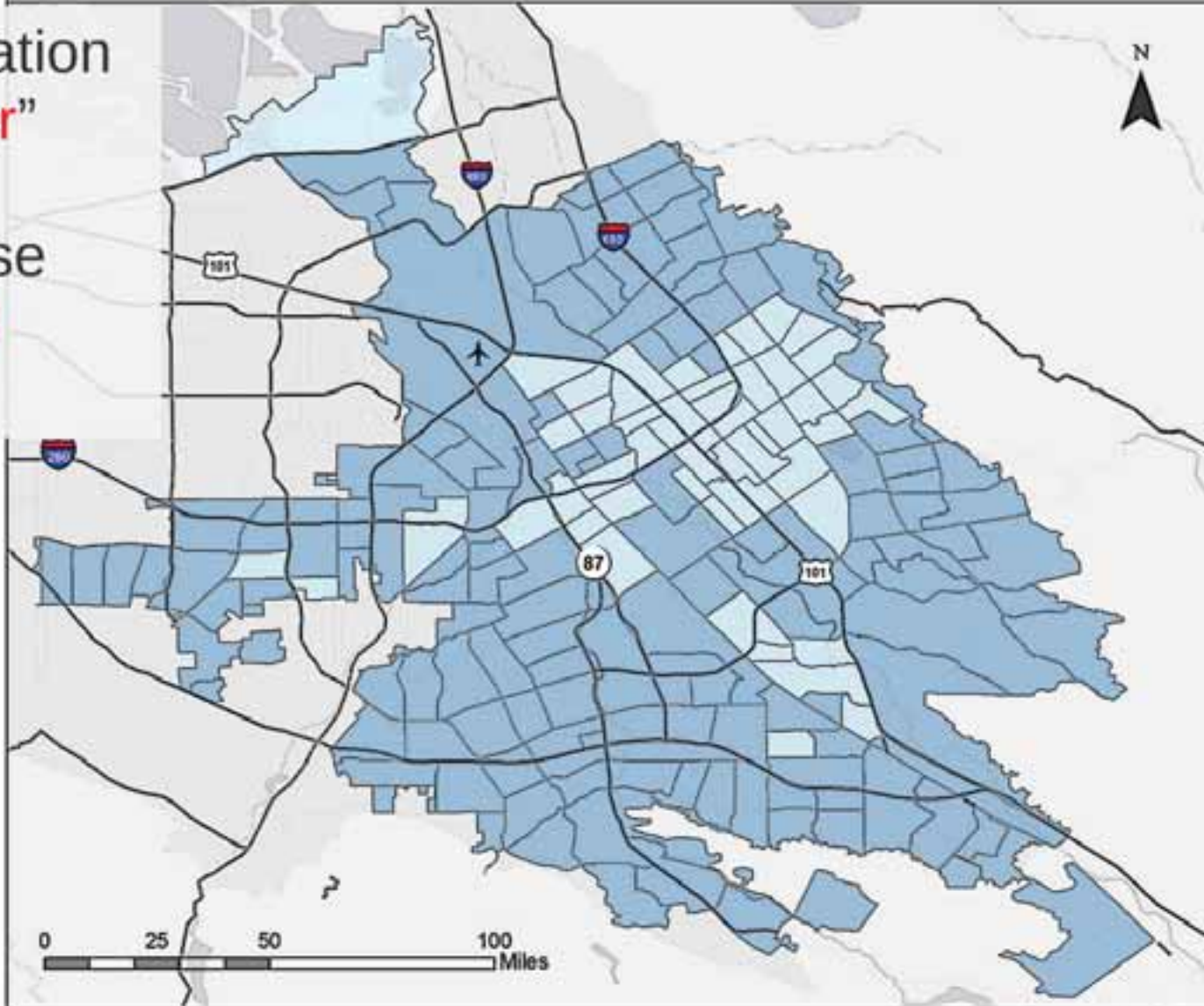
Other race population percentage

0 - 25 %	51 - 75 %
26 - 50%	76 - 100%

Hispanic Population Distribution, San Jose, CA
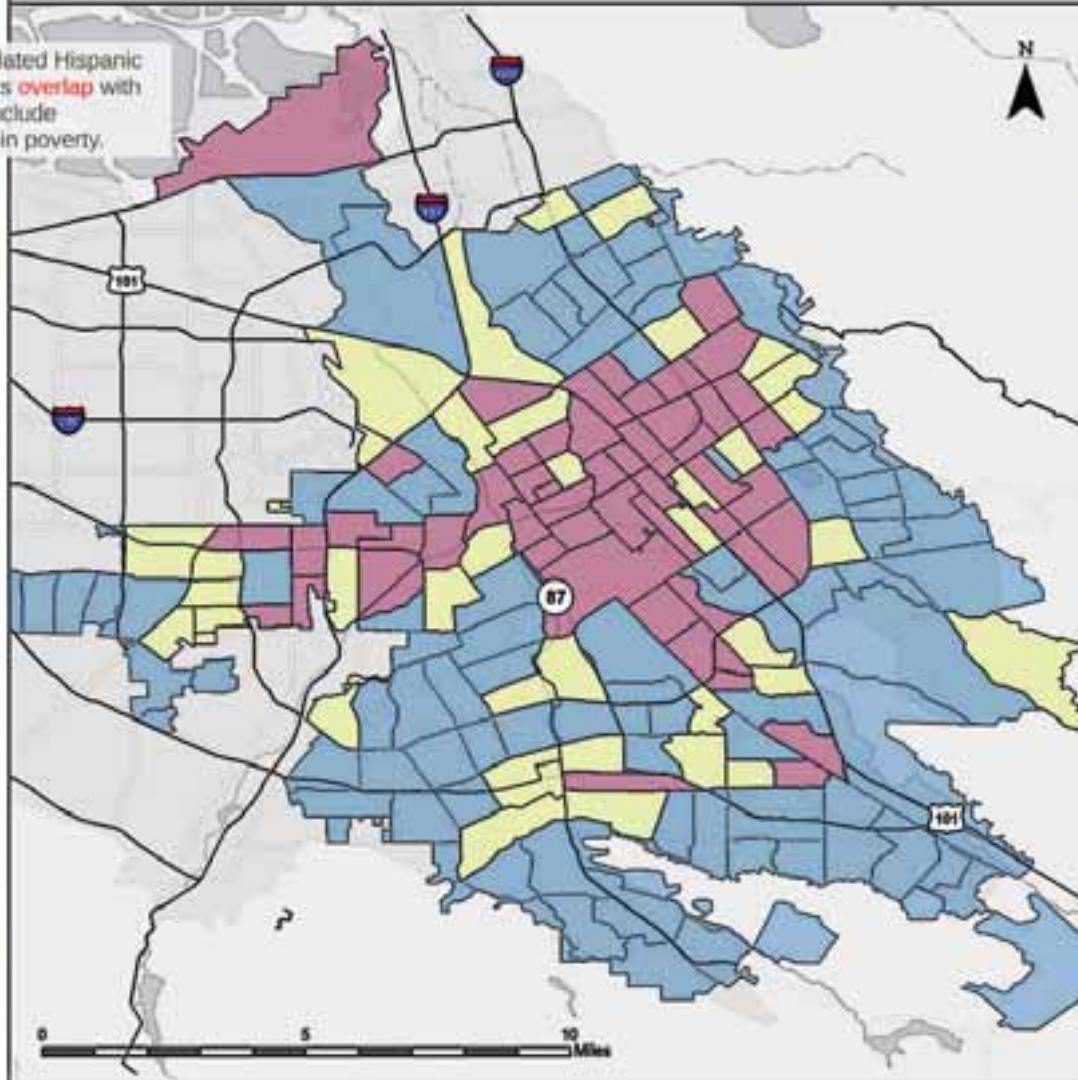
central census
cts include a high
nsity of Hispanic
pulation.

Percentage of hispanic population by census tract

- 0 - 25 %
- 26 - 50 %
- 51 - 75 %
- 76 - 100 %

Median Household Income, San Jose, CA

Highly populated Hispanic census tracts overlap with tracts that include households in poverty.
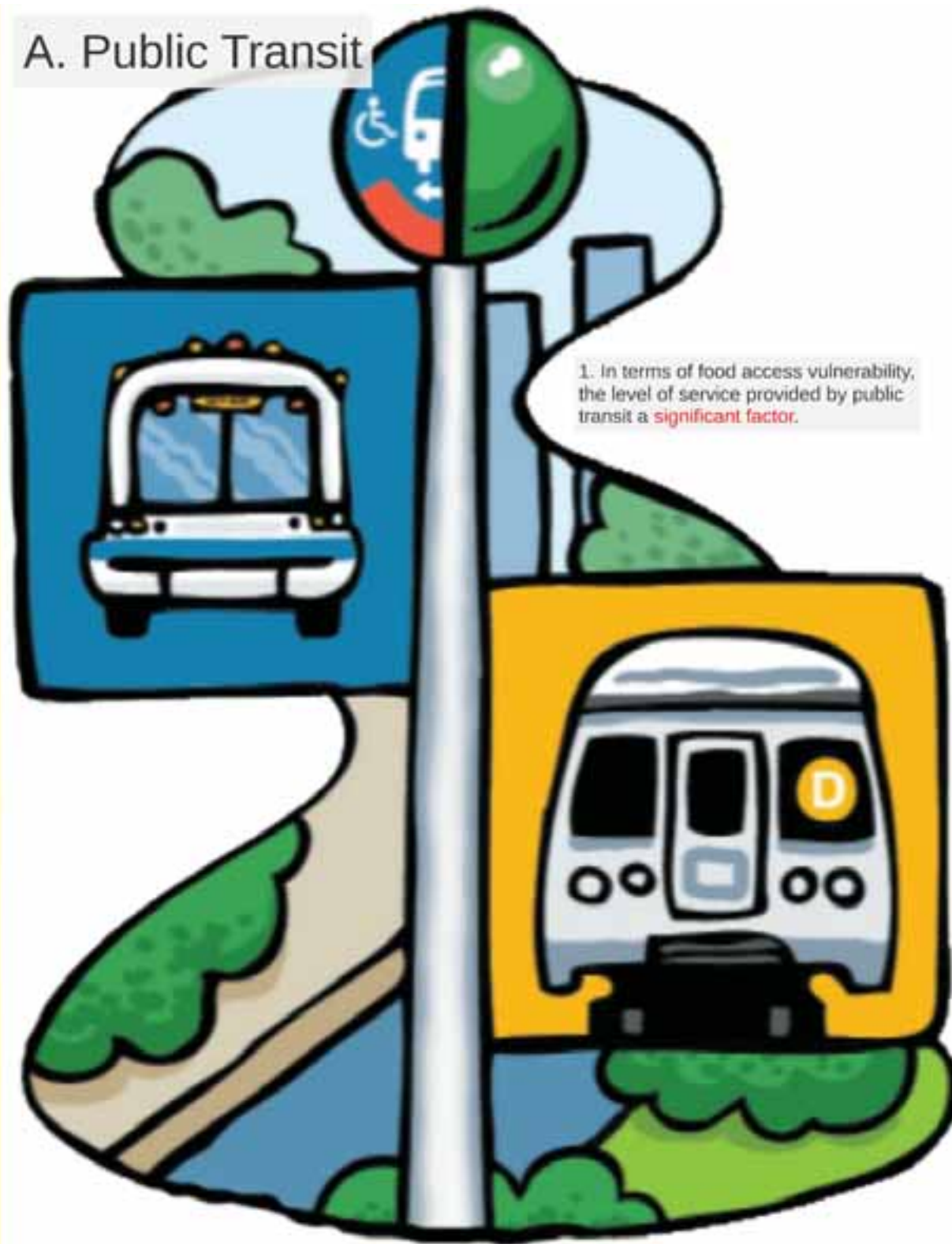
Households earning above 100% of median income

Households earning 80% to 100% of median income

Population in poverty

Households earning less than 80% of median income

Support Urban Residents to Shop for Groceries

A. Public Transit

1. In terms of food access vulnerability, the level of service provided by public transit a **significant factor**.

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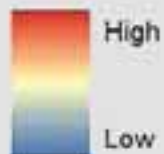
Bus Service Area Hot Spots

Density calculation of bus stops in San Jose

GIS Density Tool

Census tracts with high Hispanic population and lower-income levels, mostly, receive moderate public transit service.
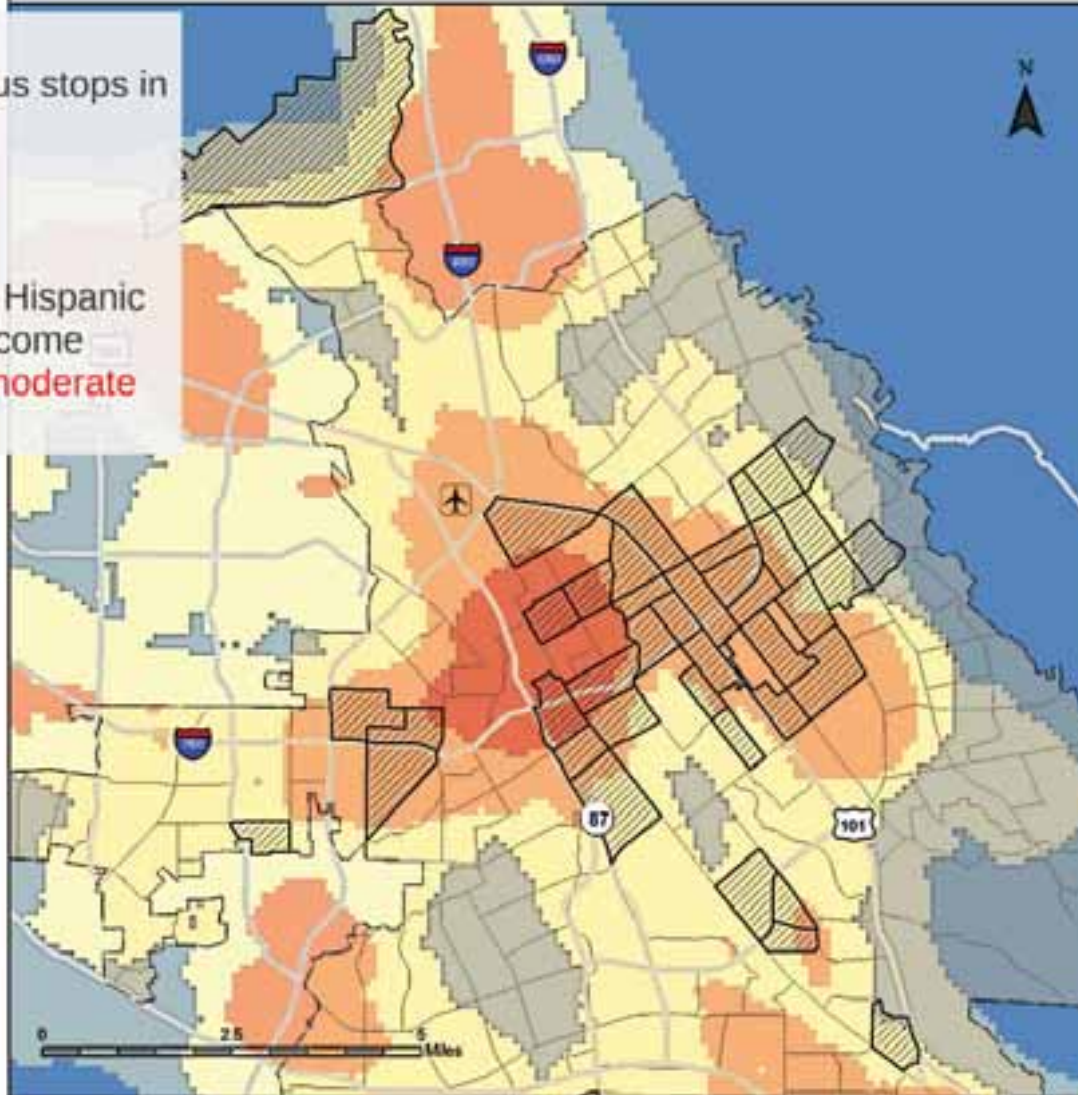
Bus Stop Density

High

Low

Census tracts with 50 % or more Hispanic population and households earning less than 80 % of median income

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. Available Food Resources: food-related retailers
North American Industry Classification System)

**Table 1: North American Industry Classification System**

Sector	Description
445110	Supermarkets and Other Grocery (Except Convenience) Stores
445120	Convenience Stores
445210	Meat Markets
445220	Fish and Seafood Markets
445230	Fruit and Vegetable Markets
445291	Baked Goods Stores
445292	Confectionary and Nut Stores
445299	All Other Specialty Food Stores`
445310	Beer, Wine, and Liquor Stores

Source: U.S. Census Bureau, *Detailed Information on the Structure of NAICS, 2007*, (Washington, DC: U.S. Government Printing Office, 2007).

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Food Retailers and Farmers' Markets Distribution Pattern

e directional distribution tool
ws a circle or ellipse around the
ation of a cluster of points.

ows their pattern of distribution
well as the direction in which
y spread.
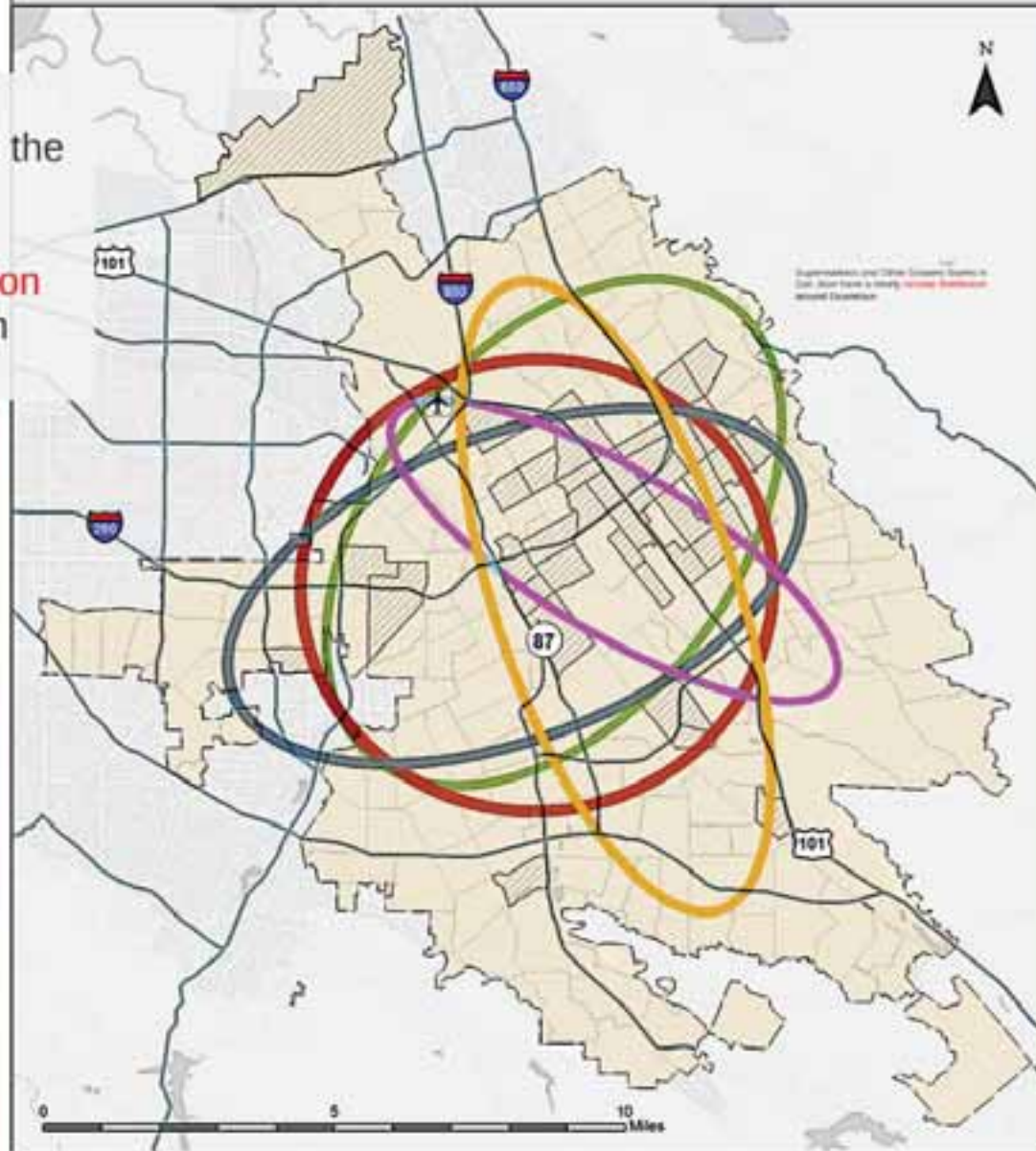
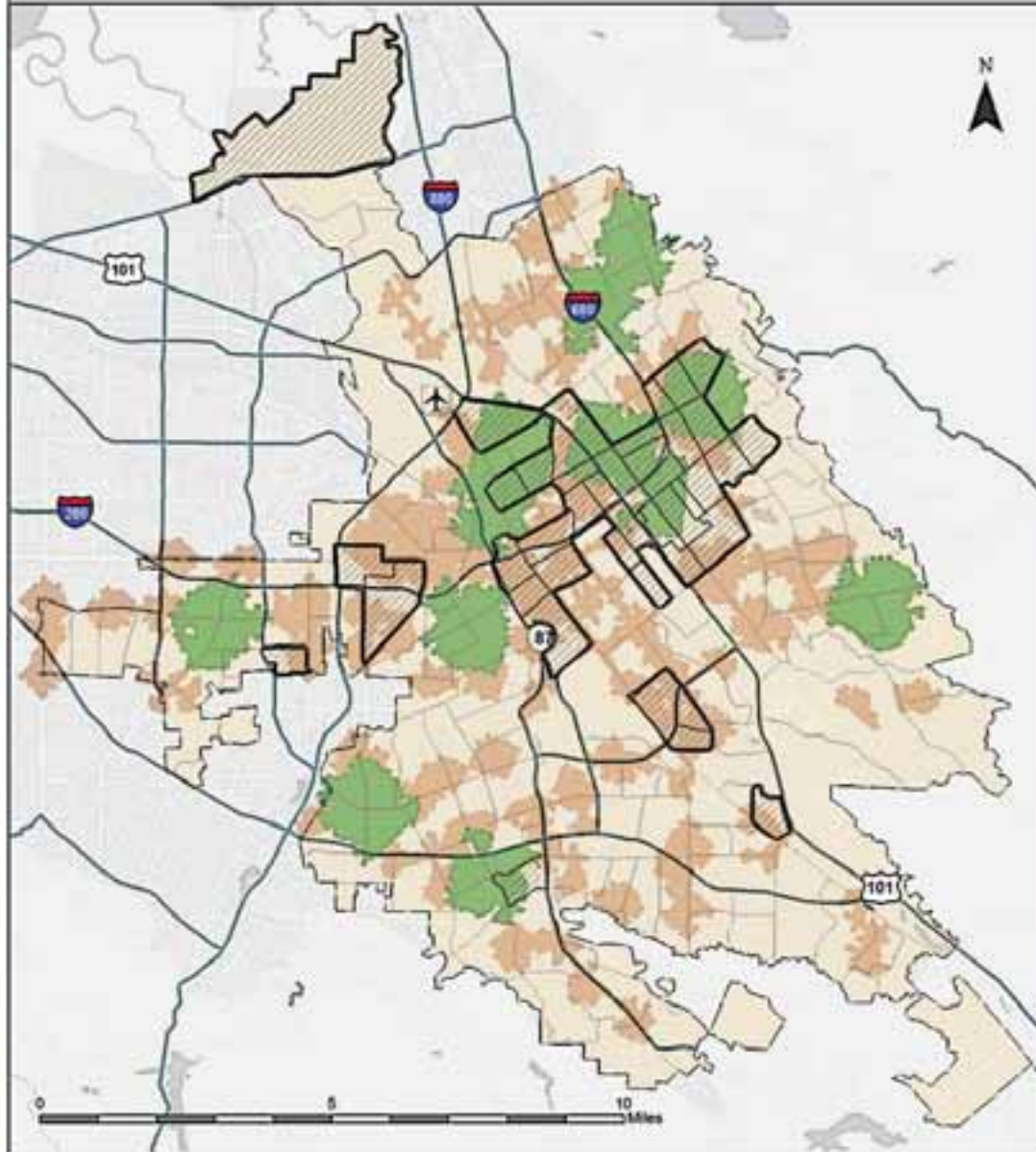Food retailers and farmers' markets

Supermarkets · Fish and seafood markets · Farmers' markets · Meat markets · Census tracts with 50% or more Hispanic population and households earning less than 80% of median income · Fruit and vegetable markets

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Supermarkets and Other Grocery Stores in San Jose have a nearly circular distribution around Downtown.

Supermarkets and Farmers' Markets 0.5 Mile Service Area

Farmers' markets' 0.5 mile service area

Supermarkets' 0.5 mile service area

Census tracts with 50% or more Hispanic population and households earning less than 80% of median income

Planning in general and food system planning in particular should include different approaches for central and eastern census tracts in San Jose when compared to areas occupied by a single race of non-Hispanic origin.

Reason:

research confirms that consumers have different fresh fruit and vegetable preferences based on race and ethnicity.